(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 12 May 2005 (12.05.2005)

PCT

(10) International Publication Number WO 2005/041753 A3

(51) International Patent Classification7:

A61B 18/18

(21) International Application Number:

PCT/US2004/034864

(22) International Filing Date: 20 October 2004 (20.10.2004)

(25) Filing Language:

(26) Publication Language:

English

(30) Priority Data:

60/512,657

20 October 2003 (20.10.2003)

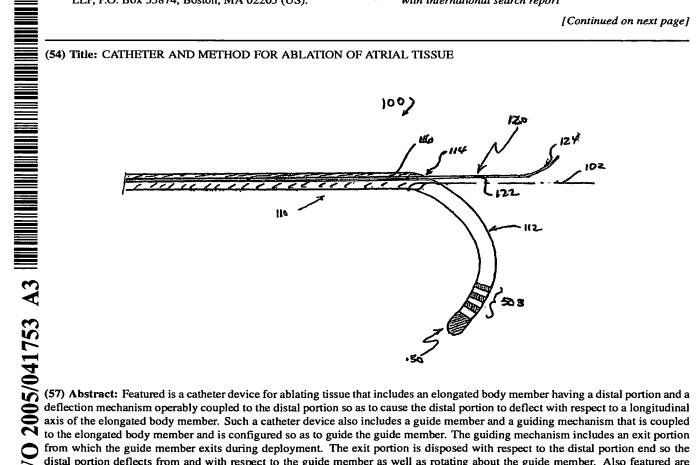
- (71) Applicant (for all designated States except US): JOHNS HOPKINS UNIVERSITY [US/US]; 3400 North Charles Street, Baltimore, MD 21218 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): BERGER, Ronald, D. [US/US]; 3101 Northbrook Road, Baltimore, MD 21208
- (74) Agents: DALEY, William, J. et al.; Edwards & Angell, LLP, P.O. Box 55874, Boston, MA 02205 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]



from which the guide member exits during deployment. The exit portion is disposed with respect to the distal portion end so the distal portion deflects from and with respect to the guide member as well as rotating about the guide member. Also featured are systems and methods related thereto.

WO 2005/041753 A3



- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
- (88) Date of publication of the international search report: 16 June 2005